MONODISPERSE CORE/SHELL AND OTHER COMPLEX STRUCTURED NANOCRYSTALS AND METHODS OF PREPARING THE SAME

ABSTRACT

The present invention provides new compositions containing naearly monodisperse colloidal core/shell semiconductor nanocrystals with high photoluminescence quantum yields (PL QY), as well as other complex structured semiconductor nanocrystals. This invention also provides new synthetic methods for preparing these nanocrystals, and new devices comprising these compositions. In addition to core/shell semiconductor nanocrystals, this patent application also provides complex semiconductor nanostructures, quantum shells, quantum wells, doped nanocrystals, and other multiple-shelled semiconductor nanocrystals.

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